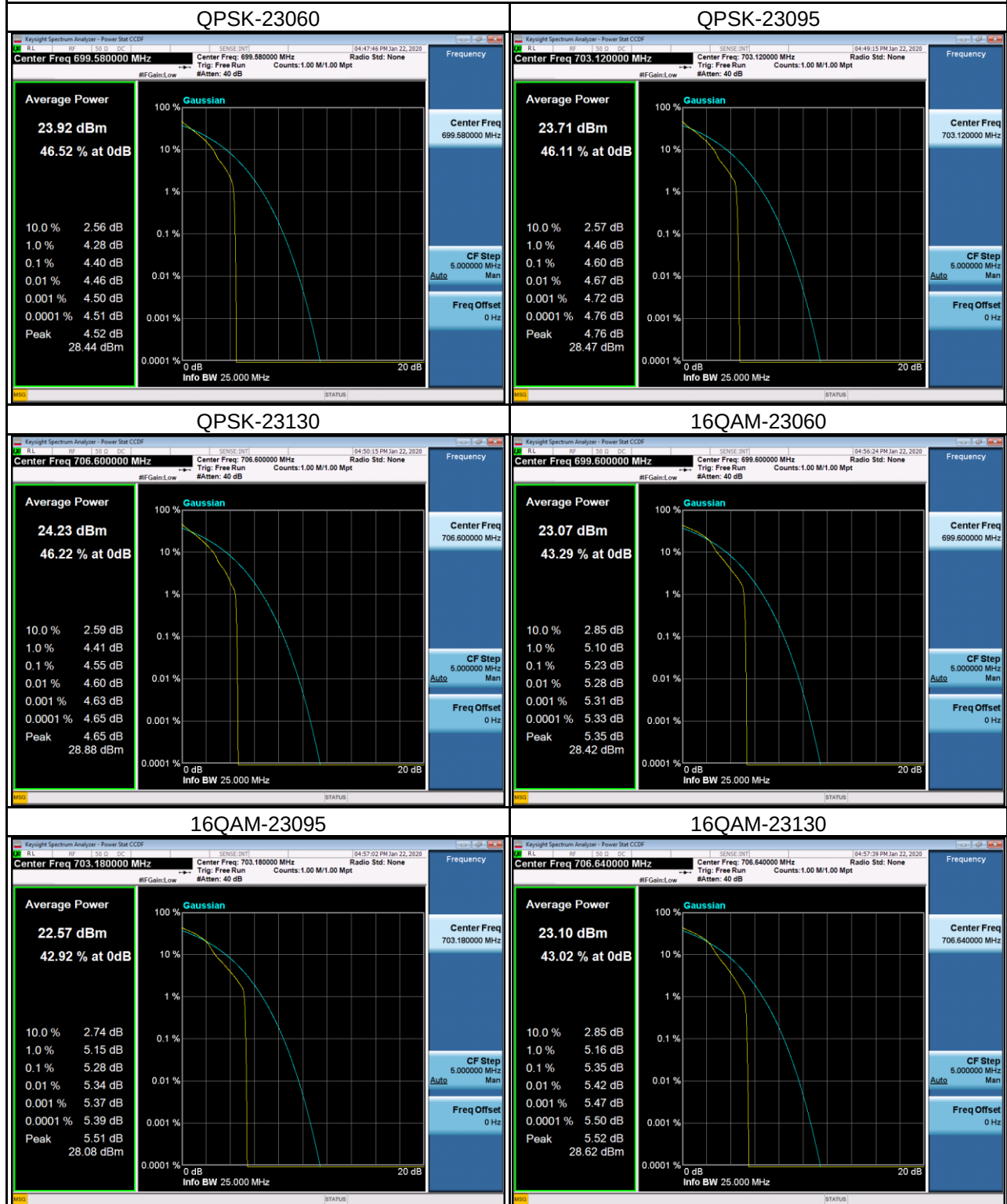
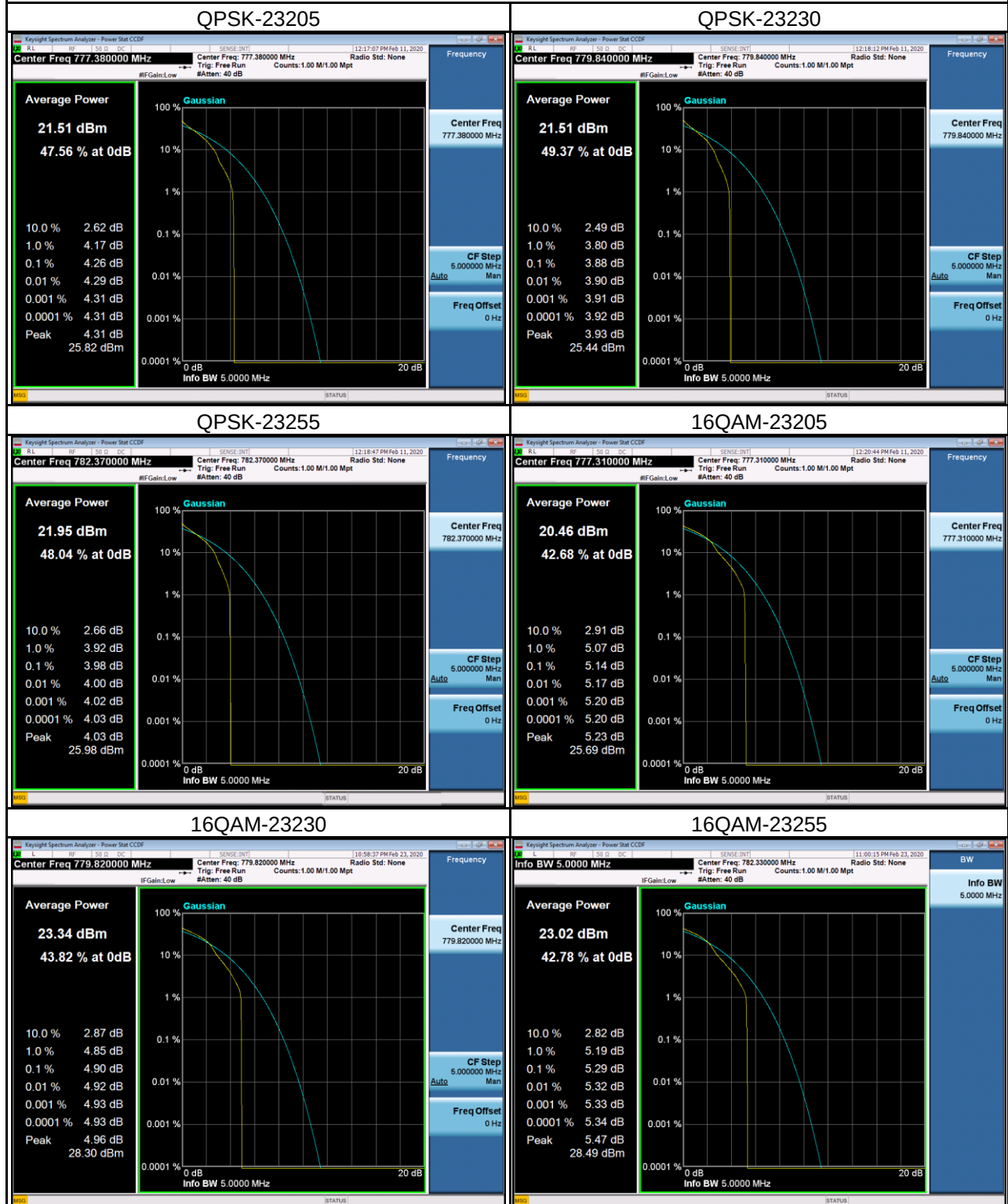


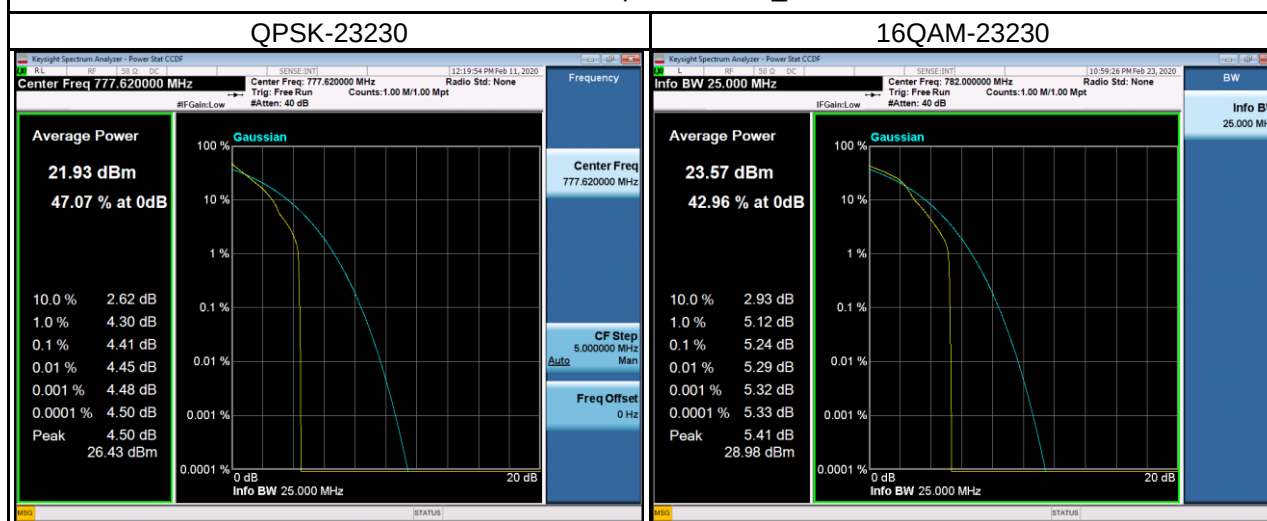
LTE Band 12 Spectrum Plot_10M



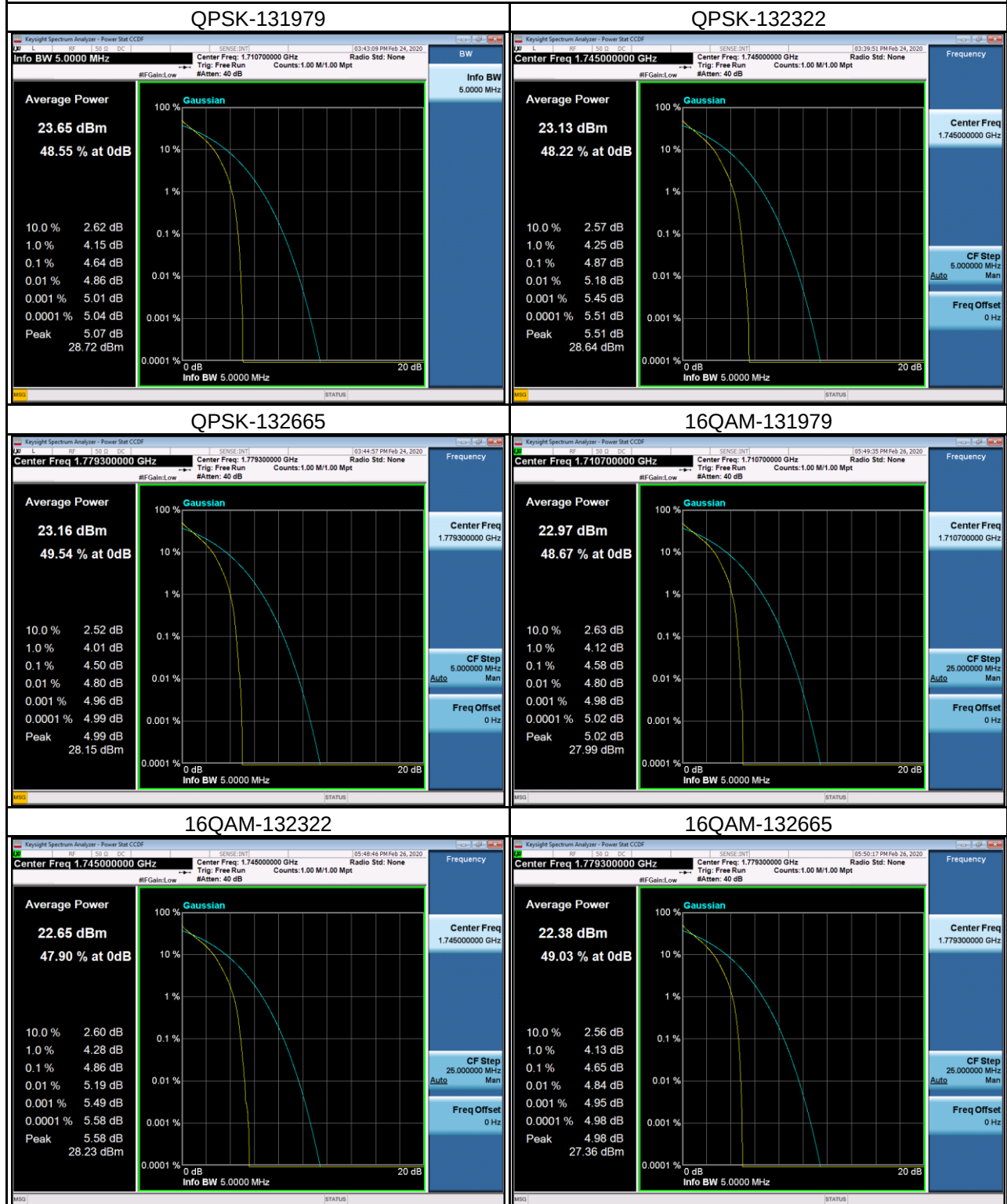
LTE Band 13 Spectrum Plot_5M



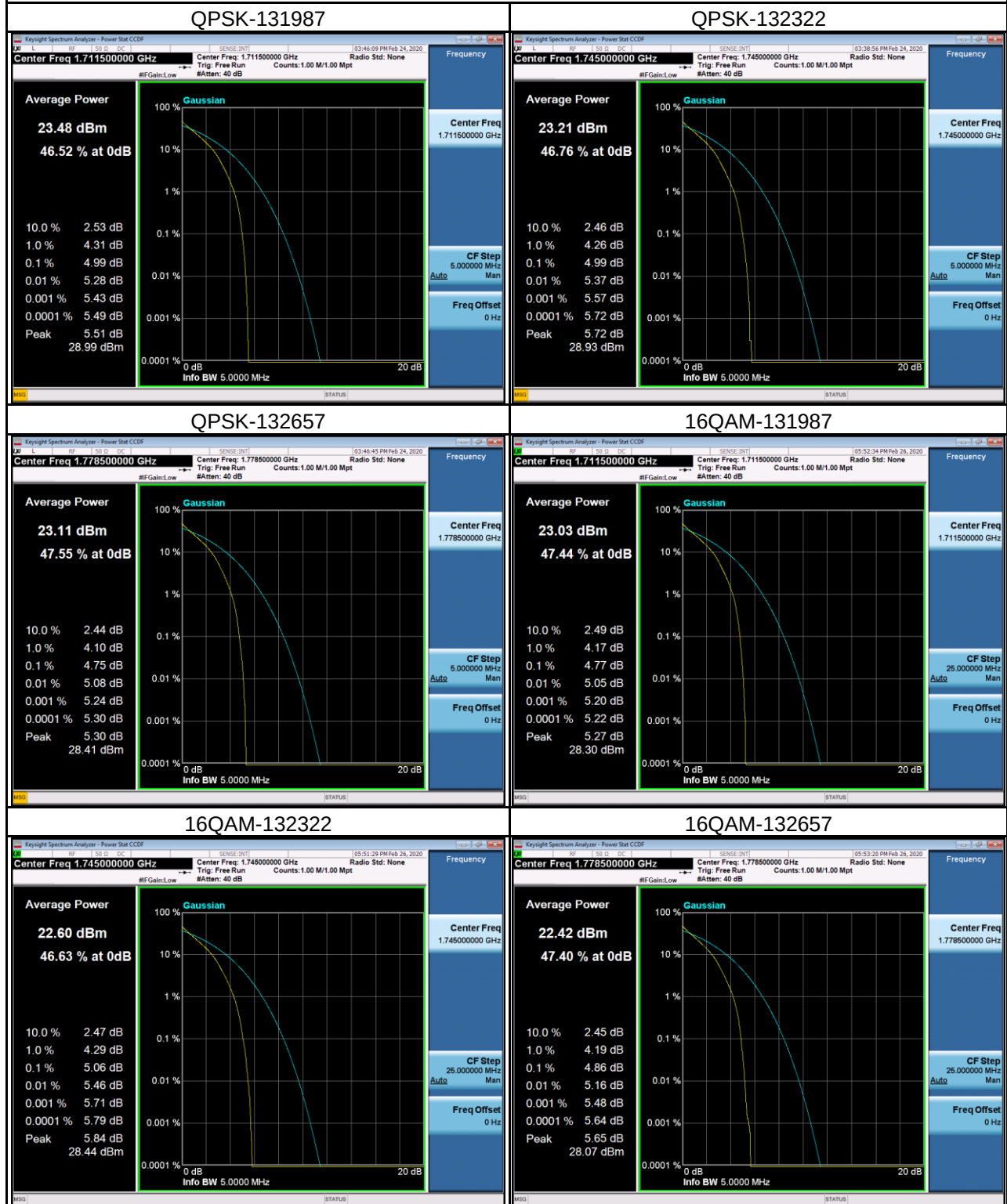
LTE Band 13 Spectrum Plot_10M



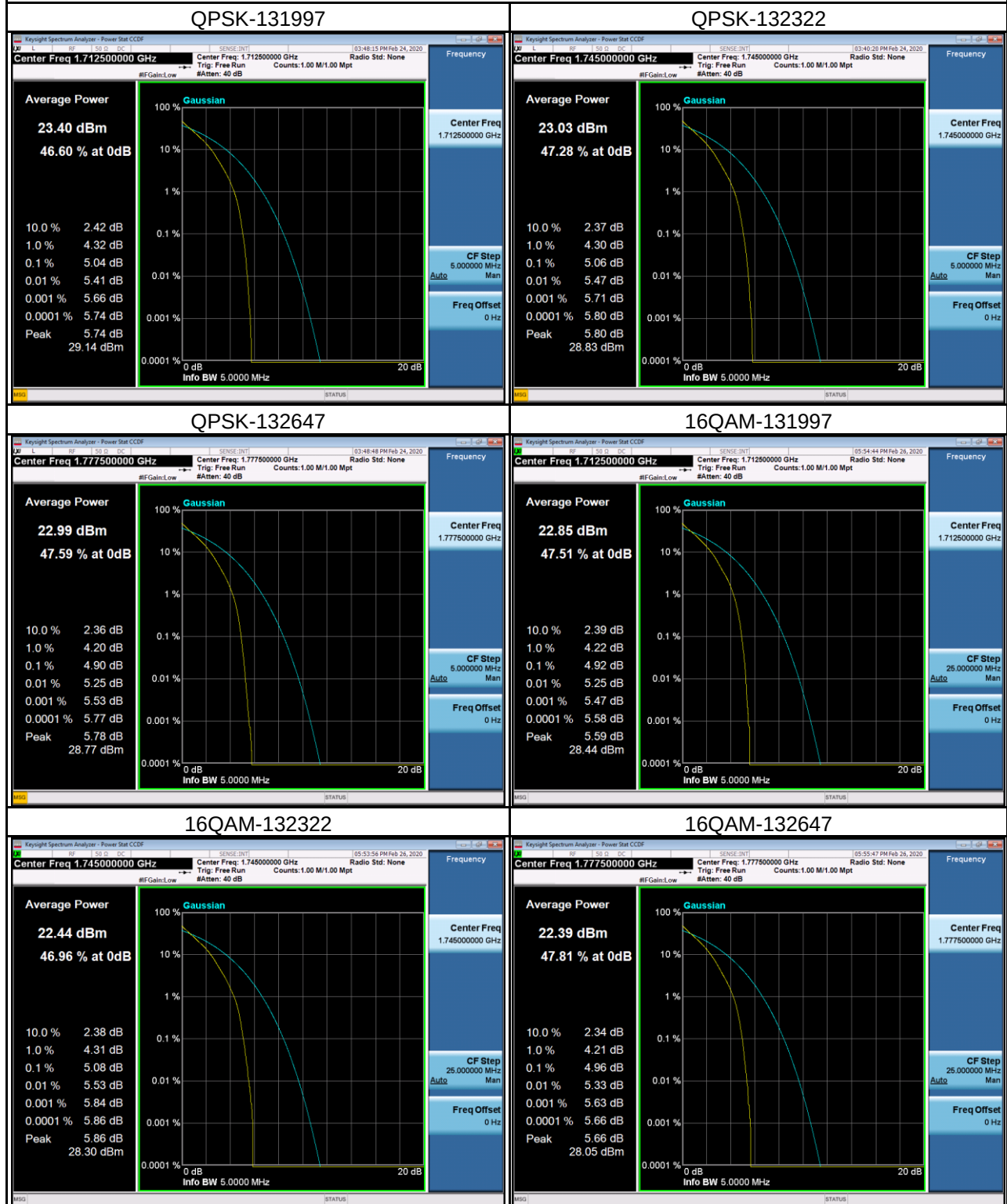
LTE Band 66 Spectrum Plot_1.4M



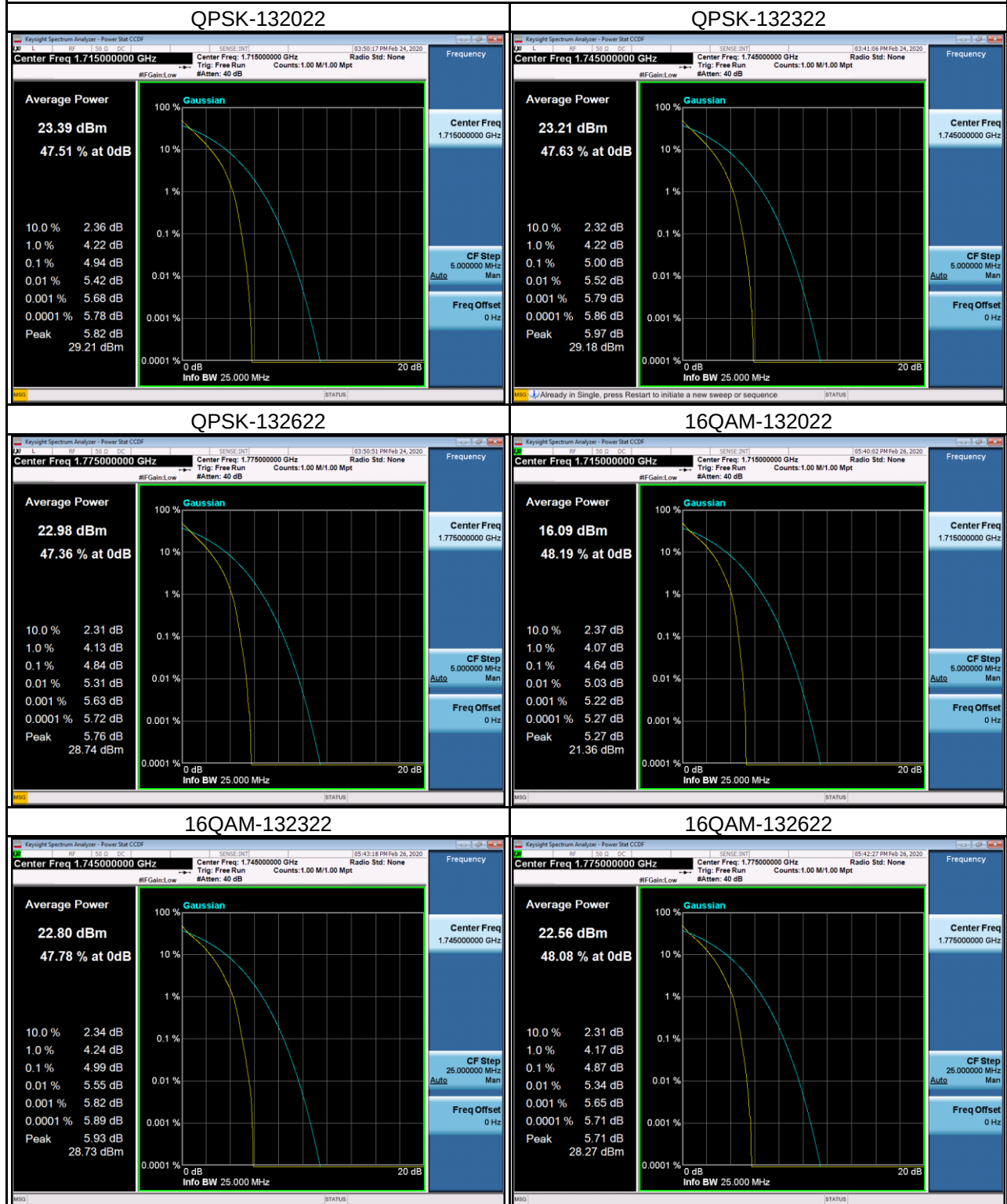
LTE Band 66 Spectrum Plot_3M



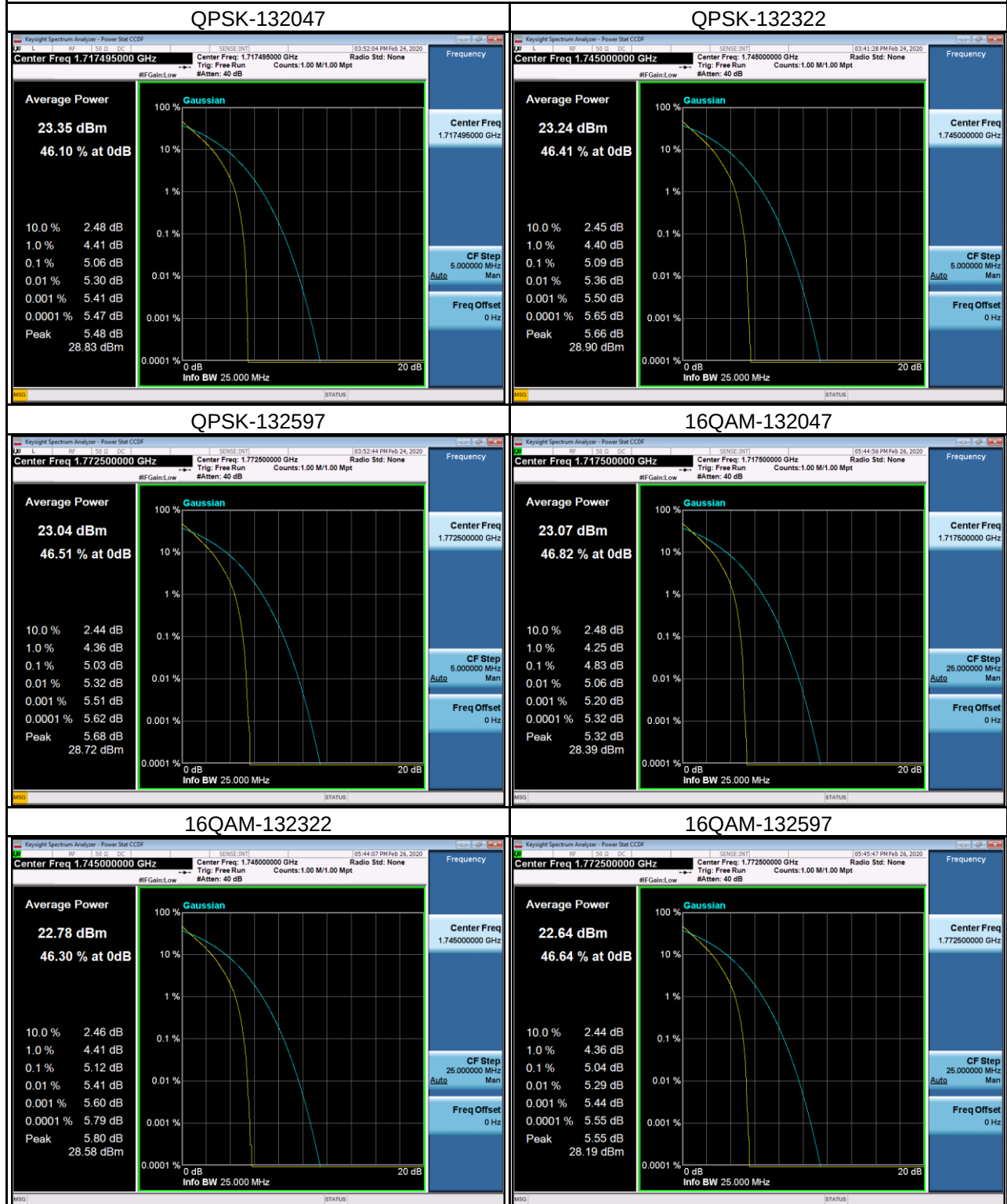
LTE Band 66 Spectrum Plot_5M



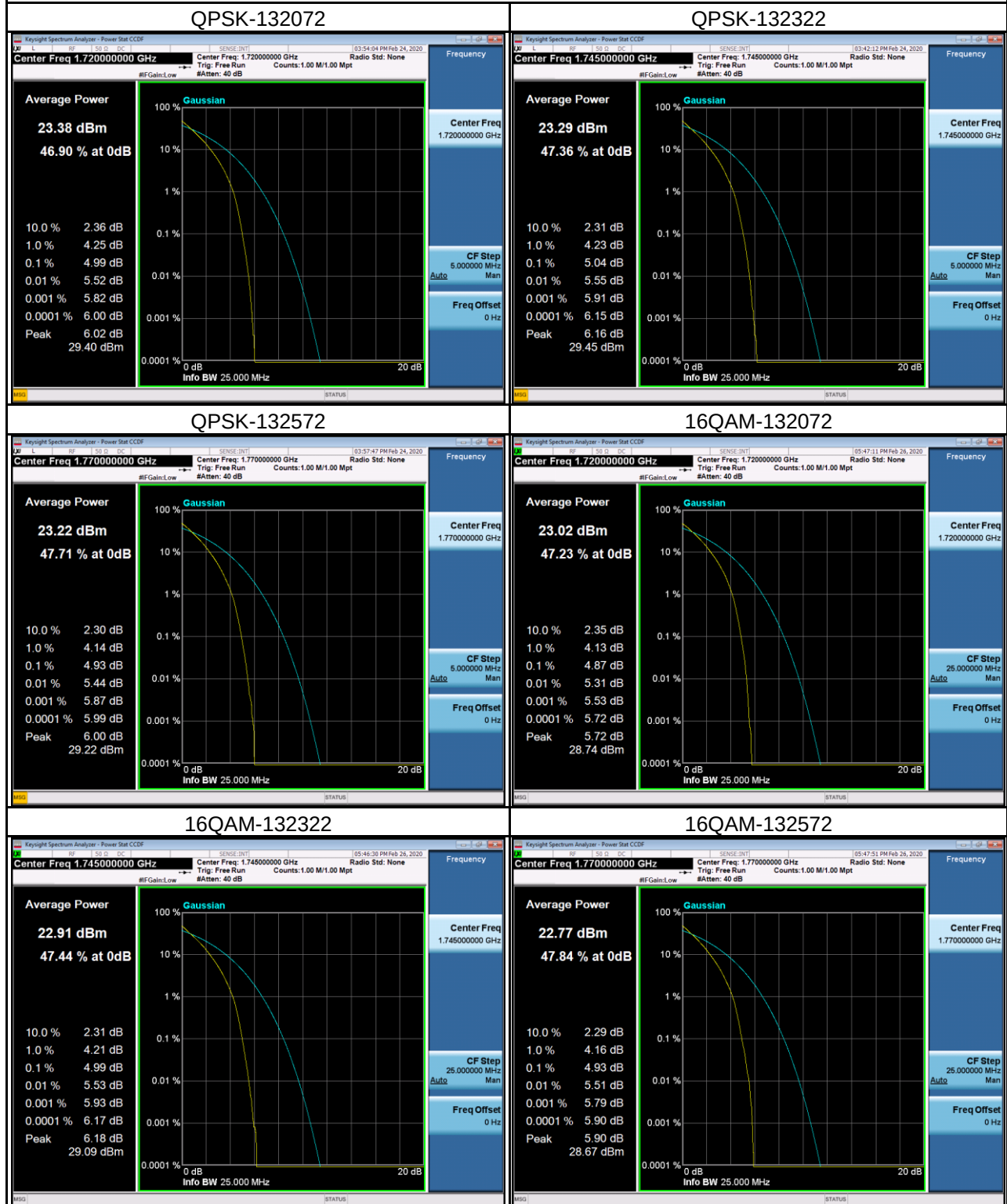
LTE Band 66 Spectrum Plot_10M



LTE Band 66 Spectrum Plot_15M



LTE Band 66 Spectrum Plot_20M



APPENDIX H - FREQUENCY STABILITY

Test Mode: LTE Band 4_CH20175_1.4M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.69	-0.002129870	±2.5
-20	-5.34	-0.003084325	
-10	-2.94	-0.001699408	
0	1.06	0.000613629	
10	-5.86	-0.003381166	
20	-8.11	-0.004680777	
30	-2.92	-0.001684508	
40	-6.68	-0.003857441	
50	-1.28	-0.000737203	
Max. Deviation (ppm)	-8.11	-0.004680777	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-2.91	-0.001679180	±2.5
3.80	-7.05	-0.004066773	
4.40	-3.38	-0.001948998	
Max. Deviation (ppm)	-7.05	-0.004066773	

Test Mode: LTE Band 4_CH20175_3M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.88	-0.001662338	±2.5
-20	-5.98	-0.003451874	
-10	-4.18	-0.002412006	
0	-5.66	-0.003268729	
10	0.87	0.000501752	
20	-2.64	-0.001524368	
30	-4.62	-0.002666335	
40	-3.08	-0.001779062	
50	-2.39	-0.001379275	
Max. Deviation (ppm)	-5.98	-0.003451874	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-6.32	-0.003648210	±2.5
3.80	-6.95	-0.004013552	
4.40	1.79	0.001031921	
Max. Deviation (ppm)	-6.95	-0.004013552	

Test Mode: LTE Band 4_CH20175_5M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-0.54	-0.000311688	± 2.5
-20	2.08	0.001198473	
-10	0.40	0.000228409	
0	-4.16	-0.002398280	
10	-3.88	-0.002239877	
20	-3.81	-0.002196733	
30	-3.99	-0.002303712	
40	1.05	0.000605600	
50	-4.29	-0.002473477	
Max. Deviation (ppm)	-4.29	-0.002473477	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	3.15	0.001815452	± 2.5
3.80	-2.68	-0.001545068	
4.40	1.33	0.000768211	
Max. Deviation (ppm)	3.15	0.001815452	

Test Mode: LTE Band 4_CH20175_10M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-1.75	-0.001010101	± 2.5
-20	-2.36	-0.001363148	
-10	1.97	0.001139553	
0	0.27	0.000153628	
10	1.44	0.000831437	
20	1.22	0.000705646	
30	2.65	0.001528717	
40	1.42	0.000820833	
50	2.08	0.001201145	
Max. Deviation (ppm)	2.65	0.001528717	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	2.64	0.001522052	± 2.5
3.80	-0.39	-0.000227391	
4.40	-4.10	-0.002366798	
Max. Deviation (ppm)	-4.10	-0.002366798	

Test Mode: LTE Band 4_CH20175_15M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-4.69	-0.002707071	± 2.5
-20	-4.22	-0.002434043	
-10	-2.46	-0.001422180	
0	-0.68	-0.000392311	
10	-0.51	-0.000295839	
20	-4.70	-0.002714102	
30	-3.47	-0.002001566	
40	-1.97	-0.001134647	
50	-3.97	-0.002291396	
Max. Deviation (ppm)	-4.70	-0.002714102	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-0.51	-0.000295946	± 2.5
3.80	-4.64	-0.002675842	
4.40	-5.16	-0.002976793	
Max. Deviation (ppm)	-5.16	-0.002976793	

Test Mode: LTE Band 4_CH20175_20M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.21	0.000698413	± 2.5
-20	2.10	0.001210239	
-10	0.90	0.000520585	
0	0.78	0.000450948	
10	-3.31	-0.001912247	
20	-1.50	-0.000865075	
30	0.80	0.000463197	
40	6.00	0.003461480	
45	5.45	0.003143823	
Max. Deviation (ppm)	6.00	0.00346148	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-3.44	-0.001986138	± 2.5
3.80	4.70	0.002710259	
4.40	5.90	0.003406795	
Max. Deviation (ppm)	5.90	0.003406795	

Test Mode: LTE Band 7_CH21100_5M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.98	0.001175542	±2.5
-20	6.37	0.002511807	
-10	2.94	0.001158982	
0	4.25	0.001674679	
10	7.91	0.003120843	
20	2.66	0.001048183	
30	1.46	0.000576326	
40	6.50	0.002565033	
50	1.83	0.000722095	
Max. Deviation (ppm)	7.91	0.003120843	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	6.01	0.002369654	±2.5
3.80	0.17	0.000067487	
4.40	6.99	0.002758537	
Max. Deviation (ppm)	6.99	0.002758537	

Test Mode: LTE Band 7_CH21100_10M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-4.44	-0.001751479	±2.5
-20	-3.14	-0.001237289	
-10	-1.53	-0.000603459	
0	-4.73	-0.001866610	
10	-5.90	-0.002325710	
20	-5.24	-0.002065689	
30	-4.55	-0.001793753	
40	-3.52	-0.001389440	
50	-2.54	-0.001003782	
Max. Deviation (ppm)	-5.90	-0.00232571	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-8.01	-0.003161038	±2.5
3.80	-7.12	-0.002808039	
4.40	-1.78	-0.000702771	
Max. Deviation (ppm)	-8.01	-0.003161038	

Test Mode: LTE Band 7_CH21100_15M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	0.69	0.000272189	± 2.5
-20	3.26	0.001285054	
-10	0.54	0.000214509	
0	-1.19	-0.000469651	
10	-2.58	-0.001015813	
20	4.15	0.001637613	
30	1.75	0.000691323	
40	2.37	0.000933502	
50	-2.07	-0.000816805	
Max. Deviation (ppm)	4.15	0.001637613	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	0.65	0.000257729	± 2.5
3.80	2.84	0.001121963	
4.40	-3.11	-0.001226266	
Max. Deviation (ppm)	-3.11	-0.001226266	

Test Mode: LTE Band 7_CH21100_20M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.82	-0.001112426	± 2.5
-20	-7.56	-0.002983578	
-10	-7.68	-0.003028039	
0	-5.48	-0.002163406	
10	0.20	0.000079889	
20	-3.47	-0.001369611	
30	-4.83	-0.001905453	
40	-0.07	-0.000025872	
50	0.99	0.000389269	
Max. Deviation (ppm)	-7.68	-0.003028039	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-3.34	-0.001316793	± 2.5
3.80	-4.98	-0.001963215	
4.40	0.84	0.000332882	
Max. Deviation (ppm)	-4.98	-0.001963215	

Test Mode: LTE Band 12_CH23095_1.4M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.57	0.003632509	± 2.5
-20	4.31	0.006095320	
-10	0.79	0.001123476	
0	-0.15	-0.000219071	
10	7.09	0.010022967	
20	1.73	0.002449977	
30	5.05	0.007133610	
40	5.94	0.008390398	
50	6.98	0.009870054	
Max. Deviation (ppm)	7.09	0.010022967	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	3.21	0.004531832	± 2.5
3.80	7.05	0.009966679	
4.40	-1.23	-0.001733413	
Max. Deviation (ppm)	7.05	0.009966679	

Test Mode: LTE Band 12_CH23095_3M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-0.72	-0.001017668	± 2.5
-20	-2.80	-0.003956595	
-10	2.62	0.003699466	
0	-0.76	-0.001072492	
10	-5.30	-0.007493561	
20	-0.20	-0.000275900	
30	3.39	0.004786353	
40	-4.00	-0.005649186	
50	2.18	0.003075965	
Max. Deviation (ppm)	-5.30	-0.007493561	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-5.52	-0.007805207	± 2.5
3.80	2.91	0.004115759	
4.40	-0.55	-0.000776914	
Max. Deviation (ppm)	-5.52	-0.007805207	

Test Mode: LTE Band 12_CH23095_5M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.88	0.005484099	± 2.5
-20	4.60	0.006499523	
-10	-0.65	-0.000923283	
0	2.94	0.004154891	
10	4.85	0.006849470	
20	1.19	0.001684610	
30	8.74	0.012347222	
40	8.64	0.012213342	
50	7.63	0.010781811	
Max. Deviation (ppm)	8.74	0.012347222	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	4.96	0.007013770	± 2.5
3.80	1.67	0.002354784	
4.40	6.44	0.009107517	
Max. Deviation (ppm)	6.44	0.009107517	

Test Mode: LTE Band 12_CH23095_10M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.97	-0.005611307	± 2.5
-20	-4.02	-0.005683193	
-10	-5.81	-0.008212056	
0	0.72	0.001023147	
10	-6.19	-0.008756138	
20	-4.20	-0.005938764	
30	-4.13	-0.005844381	
40	-7.59	-0.010722708	
50	-6.48	-0.009151996	
Max. Deviation (ppm)	-7.59	-0.010722708	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-8.03	-0.011353333	± 2.5
3.80	-7.10	-0.010029650	
4.40	-5.00	-0.007072019	
Max. Deviation (ppm)	-8.03	-0.011353333	

Test Mode: LTE Band 13_CH23230_5M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-5.69	-0.007276215	± 2.5
-20	-9.25	-0.011831829	
-10	-4.00	-0.005120060	
0	-9.98	-0.012758016	
10	-10.17	-0.013005497	
20	-1.28	-0.001640195	
30	-6.96	-0.008895441	
40	-3.91	-0.005005573	
50	-2.63	-0.003360050	
Max. Deviation (ppm)	-10.17	-0.013005497	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-5.27	-0.006734317	± 2.5
3.80	-1.23	-0.001567313	
4.40	-2.64	-0.003377558	
Max. Deviation (ppm)	-5.27	-0.006734317	

Test Mode: LTE Band 13_CH23230_10M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.17	-0.004053708	± 2.5
-20	-4.41	-0.005637609	
-10	-1.28	-0.001633544	
0	0.78	0.000996823	
10	-1.24	-0.001589870	
20	-2.73	-0.003484928	
30	0.67	0.000851912	
40	-3.32	-0.004245077	
50	1.34	0.001719721	
Max. Deviation (ppm)	-4.41	-0.005637609	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-4.99	-0.006385233	± 2.5
3.80	-2.08	-0.002662449	
4.40	-6.13	-0.007841870	
Max. Deviation (ppm)	-6.13	-0.007841870	

Test Mode:	LTE Band 66_CH132322_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-1.26	-0.000722063	± 2.5
-20	-1.81	-0.001037921	
-10	-0.76	-0.000433839	
0	2.23	0.001280491	
10	-4.67	-0.002676232	
20	0.70	0.000403409	
30	3.01	0.001724542	
40	-4.64	-0.002656572	
50	1.22	0.000697261	
Max. Deviation (ppm)	-4.67	-0.002676232	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	0.00	0.000000559	± 2.5
3.80	-4.04	-0.002315473	
4.40	2.18	0.001247859	
Max. Deviation (ppm)	-4.04	-0.002315473	

Test Mode:	LTE Band 66_CH132322_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	0.77	0.000441261	± 2.5
-20	-3.81	-0.002181938	
-10	0.95	0.000541962	
0	-0.08	-0.000046672	
10	5.43	0.003114455	
20	-1.82	-0.001042193	
30	3.92	0.002247917	
40	-1.26	-0.000724586	
50	-0.19	-0.000109568	
Max. Deviation (ppm)	5.43	0.003114455	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-1.07	-0.000613072	± 2.5
3.80	2.08	0.001193139	
4.40	-0.71	-0.000407056	
Max. Deviation (ppm)	2.08	0.001193139	

Test Mode:	LTE Band 66_CH132322_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.74	-0.001570201	± 2.5
-20	-6.32	-0.003621236	
-10	-6.78	-0.003884567	
0	1.29	0.000737625	
10	1.25	0.000715114	
20	1.19	0.000679274	
30	-1.11	-0.000634158	
40	0.71	0.000409714	
50	-4.67	-0.002678607	
Max. Deviation (ppm)	-6.78	-0.003884567	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-7.46	-0.004273930	± 2.5
3.80	-5.73	-0.003285832	
4.40	-4.95	-0.002835727	
Max. Deviation (ppm)	-7.46	-0.004273930	

Test Mode:	LTE Band 66_CH132322_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-5.68	-0.003255014	± 2.5
-20	-5.78	-0.003310924	
-10	-8.67	-0.004966872	
0	-9.87	-0.005655214	
10	-10.52	-0.006026714	
20	-10.42	-0.005971144	
30	-4.90	-0.002807500	
40	-7.49	-0.004295011	
50	-4.92	-0.002820396	
Max. Deviation (ppm)	-10.52	-0.006026714	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-7.83	-0.004488608	± 2.5
3.80	-4.43	-0.002539003	
4.40	-0.93	-0.000530183	
Max. Deviation (ppm)	-7.83	-0.004488608	

Test Mode:	LTE Band 66_CH132322_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.85	-0.002206304	± 2.5
-20	-4.05	-0.002319754	
-10	-3.72	-0.002131359	
0	-3.55	-0.002034405	
10	-0.55	-0.000315987	
20	-0.90	-0.000513587	
30	-0.54	-0.000311671	
40	0.29	0.000167159	
50	-3.78	-0.002164508	
Max. Deviation (ppm)	-4.05	-0.002319754	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-5.66	-0.003245884	± 2.5
3.80	-3.95	-0.002264105	
4.40	-1.83	-0.001048464	
Max. Deviation (ppm)	-5.66	-0.003245884	

Test Mode:	LTE Band 66_CH132322_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.21	-0.001266476	± 2.5
-20	-3.66	-0.002096518	
-10	1.95	0.001115563	
0	1.00	0.000571259	
10	-6.89	-0.003946185	
20	2.04	0.001167963	
30	-0.26	-0.000149338	
40	-0.02	-0.000013366	
50	-0.58	-0.000332403	
Max. Deviation (ppm)	-6.89	-0.003946185	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-3.76	-0.002155072	± 2.5
3.80	-2.98	-0.001707007	
4.40	-0.18	-0.000101678	
Max. Deviation (ppm)	-3.76	-0.002155072	

End of Test Report